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any trustworthy result. He is, however, inclined to believe, that both metals reflect most at a perpendicular incidence.

From the foregoing detail of the properties, in several respects so different, of this substance in its normal and anomalous states, the author thinks he is warranted in pronouncing it the first observed instance of an approach to dimorphism in a metallic alloy; and one, the mode of production and characteristics of which present several points of interest.

The conditions under which the alloy was aggregated, involved extremely minute division of the metal, great pressure in forcing the divided particles into contact, and nearly the exclusion of air. Considerable electrical disturbance may have also co-operated; such, together with induced magnetism, being the constant accompaniments of motion in heavy machinery. By re-establishing these conditions, under suitable arrangements, the author hopes to repeat the results thus accidentally first obtained, and so produce possibly dimorphous states of other metals or their *definite* combinations.

There is but one body which occurred to the author, presenting an analogy to this anomalous alloy, namely, indigo; whose fracture, it is well known, is fine earthy, and of the usual blue colour, but becomes coppery, or assumes the metallic lustre on being rubbed or burnished.

DONATIONS.

Über den Galvanismus gegen örtliche Krankheiten, von Dr. Gustav Crusell.

Recueil des Acts de la Seance Publique de l'Académie Imperiale des Sciences de St. Petersburg, tenue le 29 Decembre, 1840.

Memoires de l'Academie Imperiale des Sciences de St. Petersburg. 6^{me} Série. *Sciences Politiques*, &c. Tome IV. Livraison 6, and Tome V. Livraisons 1-4.

Sciences Mathematiques, &c. Tome IV. Premiere partie, Livraisons 5^{eme} et 6^{eme} ; Tome VI. Seconde partie, Livraisons 1-5.

Proceedings of the Committee of Commerce and Agriculture of Royal Asiatic Society, 1841.

Journal of the Royal Asiatic Society. No. 12.

Prælection on the Studies connected with the School of Engineering in Trinity College, Dublin. By the Rev. Humphrey Lloyd, D. D. Presented by the Author.

The Chronicle of William de Rishanger. By Richard O. Halliwell, Esq., Hon. M. R. I. A., &c. Presented by the Editor.

Ordnance Survey of Wexford, in eighty-six sheets. Presented by the Lord Lieutenant.

Sketch of the Loan Fund System in Ireland. By Charles Piesse, Esq. Presented by the Author.

Catalogue of the Miscellaneous Literature in the Library of the Royal Society. (1841).

Proceedings of the Royal Society, 1841. Nos. 46-50.

Supplemental Instructions for the use of Magnetical Observatories. 1841.

Phil. Transactions for 1841. Parts 1 and 2.

Edinburgh Astronomical Observations. Vol. IV: 1838.

Memoires de l'Académie Royale des Sciences de l'Institut de France. Tome XII.

Memoires présentés par divers savans a l'Academie des Sciences Mathematiques et Physiques. Tome IV.

The American Almanack for 1842.